

Household Hazardous Materials Programs



February 2007

Iowa Department of Natural Resources
Energy and Waste Management Bureau

Household Hazardous Materials Programs

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Iowa Department of Natural Resources
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Foreword

The Energy and Waste Management Bureau develops, implements and administers a variety of programs and projects that work together to provide Iowans proper management education and proper disposal opportunities for hazardous materials generated in the household, on the farm, in industrial and commercial sectors, and in schools.

The Household Hazardous Material Programs report discusses actions and results of these actions undertaken by the Energy and Waste Management Bureau and its stakeholder partners in 2006.

The Energy and Waste Management Bureau believes that this report will provide the reader with a better understanding of the opportunities afforded them and the activities taking place to address the negative consequences common household hazardous materials have on human health and safety and our environment.

Thank you for investing your time in the review of this report. It is important that Iowans share in the understanding of how everyday actions, including the common products we use, store and dispose of affects our lives.

*The **Iowa Poison Control Center** reported nearly 18,000 exposures to household hazardous materials in 2004.*

Household Hazardous Materials are the leading cause of poisonings in children.

54% of all poisonings occurred in children under the age of six.

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Introduction

Household Hazardous Materials

A Household Hazardous Material (HHM) is a term defining common household materials or products that have one or more of the following characteristics:

- Toxic** – poisonous, causing cancer or other health problems
- Corrosive** – destroys human tissue or corrodes metal
- Flammable** – easily ignitable and will burn
- Reactive** – explosive through exposure to heat, sudden shock, pressure or comes into contact with incompatible chemicals

Common household hazardous materials include, but are not limited to:

- | | |
|-----------------------------|----------------------------|
| pesticides | oil based paints |
| petroleum based fertilizers | caustic household cleaners |
| motor oil | waxes and polishes |
| antifreeze | degreasers |

Household Hazardous Waste (HHW) is commonly defined as waste from residential sources composed of old or unwanted products that exhibit any of the characteristics of household hazardous materials.

In Iowa, HHMs and HHWs also include wastes generated by businesses classified as a Conditionally Exempt Small Quantity Generator (CESQG) by the *US EPA*. *This classification applies to businesses that generate less than 220 pounds of hazardous waste or less than 2.2 lbs of acute hazardous waste per month or less than 220 pounds of spill residue per month.*

HHW contains most of the same chemical types found in commercial and industrial hazardous waste. Though less concentrated, HHW in aggregate should be managed with the same considerations that caused EPA and States to ban commercial and industrial hazardous waste from sanitary landfills.

HHMs are found in nearly every store, under every sink, in closets, basements and garages. Consequently, nearly every household and business in the state generates HHW. This hazardous waste is likely to end up in local solid waste facilities, or in municipal sewer systems, septic tanks or released directly into the environment, unless steps are taken to manage this waste independently from other household and business wastes. This report discusses several HHW programs and projects the Energy and Waste Management Bureau provides Iowans to properly manage hazardous wastes.

**Why are HHMs of Concern?**

HHMs and HHWs are associated with adverse health, environmental and safety effects. Health effects caused by hazardous waste can be acute (sudden or immediate onset of severe symptoms) or chronic (gradual onset of symptoms occurring through repeated exposure over an extended period of time).

Children are of special concern, as they are more susceptible to toxins than adults. A majority of all poisonings in Iowa (54 percent) occurred in children under the age of six. Particularly in children, toxins may impair their immune and reproductive systems, and can impact mental development.

What is the value of HHW collection programs?

HHW collection programs allow households and businesses to minimize our impact on the environment and to improve the health and safety in our homes and businesses. Improper disposal of household hazardous waste includes dumping into ditches or on the ground, pouring down drains or sewers, and placing in the trash. Each of these improper disposal actions result in negative consequences.

Dumping HHWs in ditches or on the ground releases hazardous chemicals directly into the environment where these toxins often flow directly into Iowa's water bodies, exposing wildlife, pets and humans to direct and indirect contact and uptake through inhalation, absorption and ingestion.

Pouring HHWs down drains and sewers can cause severe consequences. Numerous reports exist where improper disposal of HHWs in this manner has caused explosions and noxious fumes in the sewer system and residential basements. Storm sewers often empty directly into lakes and streams, a direct conduit for hazardous chemicals to impact drinking water, recreation, and aquatic life. Studies have also shown that some hazardous chemicals can pass through water treatment systems and are again discharged to the environment, contaminating our lakes and streams.

Water treatment and septic systems are also put at risk as HHWs kill the beneficial bacteria that aid in the breakdown of waste, compromising the effectiveness of waste treatment thus preventing raw sewage from being properly treated.

Placing HHW in the trash easily provides the opportunity for incompatible chemicals to mix. Numerous reports exist where trash collectors and landfill operators have been injured from hazardous waste in municipal trash. Chemical reactions from various HHW can result in explosions, fires, and toxic fumes causing personal injury and damage to equipment.

Improper disposal of HHW has an environmental, safety, and economic cost. Counties and cities depend upon healthy waterways to support tourism including fishing and other water based recreation activities. Rivers serve as the source of drinking water for many Iowans. The benefits of contaminant free drinking water are obvious. Aquatic life and wildlife using our lakes and streams are also put at risk by improper disposal of hazardous wastes.



What about HHMs stored in homes?

Discussed earlier was the frequency of accidental poisonings of humans caused by HHMs found in homes. The majority of poisonings in the home occur in children and are directly related to common household hazardous products improperly used and stored. HHMs also put firefighters in danger when stored in homes and businesses as improper storage is a common cause of fires, explosions and the release of toxic fumes.

Toxic Cleanup Day (TCD) Program

Toxic Cleanup Days are one-day, countywide collection events for hazardous wastes generated by households and farming operations. The Department provides a cost share for counties sponsoring TCD events where regional collection center services are not yet available. There is no charge to persons participating in these collection events.

In 2006, one TCD event was held in Clay County. A total of 95 customers participated by dropping off household hazardous waste (HHW) during the event. Waste was unloaded by local volunteers and set on staging tables where the hazardous wastes were separated into appropriate categories by hazardous waste contractor staff.

To keep disposal costs at a minimum, the oil base paints and A-fuels were bulked into separate 55-gallon steel drums. These wastes were fuel-blended and burned with coal as an alternative fuel at a nearby cement manufacturing facility permitted for such materials. The waste steel cans were then collected and recycled at a local scrap yard.

Corrosive materials were lab packed in their original container and were sent to an out-of-state treatment facility and neutralized. All toxic material was also lab packed in their original container and sent for incineration.

Toxic Cleanup Day Results - 2006

Department Contribution	\$3,154
Local Contribution	\$5,871
Total Cost	\$9,025
Total Hazardous Waste Collected	6,772 lbs
Average Cost per Pound	\$1.33
Number of Participants	95
Average hazardous waste collected per participant	71.3 lbs

**Regional Collection Center Program (RCC)**

Regional Collection Centers (RCCs) are permanent collection facilities designed to assist the public and conditionally exempt small quantity generators with proper management and disposal of hazardous waste. RCCs accept specific types of hazardous waste for disposal, provide a materials exchange (Swap Shop) and work to educate Iowans in proper purchasing and management techniques for HHMs.

Currently, 20 operating RCCs serve 81 counties with a variety of programs including daily access to a hazardous material drop-off site. Twenty-five cities in five counties have contracts with RCC's to provide Mobile pick up events twice a year. Facilities in Northwest Iowa (Clay, Lyon, Sioux, O'Brien, and Osceola), and Appanoose County are under construction and are expected to begin operations in spring of 2007. The DNR received two requests for funding in 2006. These requests totaled \$75,476 for locating satellite facilities in 2 counties. Funding requests are now being reviewed. If approved, the grants will enable both counties to begin an RCC program in 2007.

Regional Collection Center Program - Summary of 2006

Establishment Grants	\$616,744
Operating Assistance Support	\$76,610
Total Cost to Department	\$693,354
 Total Waste Collected	 2,921,284 lbs
Total Waste - Contracted for Disposal	870,702 lbs
 Number of Participant Households	 28,191
Average HHW collected per participant	81 lbs
Number of CESQG participants	912
Average hazardous waste collected per participant	225 lbs



Sustainable Computer Recycling Initiative

The 2006 Iowa Legislature appropriated \$300,000 from the Solid Waste Alternatives Program to implement a **one-time** competitive grant offering for the recycling of hardware or equipment associated with personal computers. The Department's goal for this special one-time grant offering was to award funds that would best serve the state of Iowa by establishing or expanding sustainable computer collection and recycling program opportunities across the state.

Priorities for funding included:

1. Programs demonstrating sustainability of permanent collection / processing opportunities;
2. Programs targeting a service area not currently served by computer recycling opportunities and/or programs targeting service areas with substantial population base (and therefore significant computer recycling potential) and/or programs that increase the convenience of computer recycling;
3. Proposals incorporating a reuse component.

The Department developed and issued a Request for Proposals in the Fall of 2006. Eight (8) proposals were received requesting nearly \$624,000 in grant assistance. Five (5) proposals were selected for funding to receive \$264,543 in grant funding. Selected proposals will expand computer-recycling opportunities in urban and rural areas, targeting scrap computers generated by businesses, schools, and households. Contracts are now being prepared for selected projects.

Cathode Ray Tubes (CRTs)

The glass in CRTs contains enough lead to require managing it as hazardous waste under certain circumstances. Under previous US EPA regulations, businesses and other organizations that recycle or dispose of CRTs were sometimes unclear about the proper way to recycle or dispose of this material. This uncertainty often prevented CRTs from being recycled and reused.

EPA has revised the regulations concerning management standards for CRTs destined for recycling. The goal is to increase the collection and recycling of CRTs, and to reduce the amount of lead in landfills. The Department, following the lead of EPA, has through rule added color CRTs to the list of household hazardous materials.



Toxics In Packaging

Iowa law does not allow the intentional introduction of any amount of four toxic metals in any package or packaging component. These metals include lead, mercury, cadmium, and hexavalent chromium. In addition Iowa law places limits on the amount of these metals incidentally introduced.

Iowa law mirrors the legislation of 18 other states, many of which, including Iowa belong to the Toxic In Packaging Clearinghouse (TPCH). The TPCH was established in 1989 to encourage and coordinate the implementation of individual state toxics in packaging laws through joint consideration of exemptions and/or clarifications, to minimize the administrative process for states and applicants, and to create a centralized location for receipt and processing of written requests. The Clearinghouse serves as a cost-effective vehicle and forum for its member states to administer the states' toxics in packaging laws in a manner that promotes consistency and uniformity in administration and enforcement by participating states.

Enforcement of the Model Toxics in Packaging Legislation is at the discretion of each individual state. However, violation information will be shared among the Clearinghouse member states, and will be pursued in a consistent manner, to the extent possible. Iowa currently has among the weakest enforcement language among member states and the Department is pursuing legislation during the 2007 session to strengthen the state's ability to enforce this health concern.

In 2006, packaging from 142 products was tested by TPCH on behalf of member states. All of the packaging contained Mercury, Lead, Cadmium or Hexavalent Chromium over the 100 ppm limit and often over 5000 ppm, some readings were as high as 11,000 ppm. These metals can cause serious and lasting health effects, including death, cancer, nervous system damage, brain and liver impairments, and severe developmental problems in children. The 54 companies that distribute or manufacture the packaging to Iowa were notified of the violation and requested to provide a certificate of compliance with the law. Only four companies removed the packaging from public access.

The state has been made aware of repeated violations of the Toxics in Packaging restrictions. The current law only allows a request for the company to provide a certificate of compliance. Current law does not require removal from distribution, or prevent repeated violations. If the product is tested and found to be out of compliance, the Department has no authority to enforce the law.



HHW Grants

Rural Outreach for Household Hazardous Material Management

The Department applied for and received an \$89,500 grant from the US Department of Agriculture, Rural Development Division. The purpose of the grant was twofold: 1) to increase rural residents and farmer awareness of the HHMs found on the farm including proper storage and proper disposal and 2) to provide public awareness methods and materials that would improve Regional Collection Centers and landfill associations to more effectively target Iowa's rural and farm families on proper management of solid waste and hazardous materials.

The outcome of this project is improved management of hazardous materials and solid waste on Iowa's farmsteads, a reduction in surface and groundwater pollution and a reduction in human and animal exposures to hazardous substances.

Agren, Inc. conducted on-site farm assessments and several outreach activities were held in each of the three counties by the local project coordinators. Persons attending these activities received a discount coupon on disposal costs for hazardous materials brought to a special HHW collection event hosted by their local Regional Collection Center and sponsored by the Department.

Event Location	Participants	HHW Lbs	Disposal Fee	Farmer savings
Crawford County	15	1,887	\$6,820	\$6,280
Jones County	4	710	NA ¹	NA ²
Union County	11	528	\$1,398	\$1,338

Note:

- 1 Jones County does not charge for hazardous farm waste disposal.
- 2 Since Jones county farmers are not charged for hazardous waste disposal, there is no cost savings.

This partnership provided HHM education and discounted disposal to rural residents in the low income counties of Jones, Crawford and Union. Approximately 3125 lbs of material was collected for proper disposal. Educational materials were developed which focus exclusively on assisting rural residents and farm businesses with management of HHM's. A statewide training tool was made available to all Regional Collection Centers and Solid Waste Agencies. A CD was created for Agricultural teachers which focused on educating rural youth about specific HHM's that they may encounter in rural settings. CD's were distributed to the Iowa Association of Ag Educators (approximately 400 teachers).

School Chemical Management

The DNR is partnering with the Environmental Protection Agency to provide mini-grants to schools who participate in an Advanced Rehab the Lab Chemical Management Training Course. The training classes are conducted by Growing Green Communities, offered over the ICN, and instruct Junior and Senior High school educators on proper chemical management of school laboratories, industrial tech areas, and custodial areas. Fifty schools have received \$900 each to implement the chemical management procedures taught in the class. We expect to award an additional 20 grants to Iowa schools in 2007.



Section 1:

Individual Statistics for Regional Collection Centers



Regional Collection Center (RCC) Accomplishments

Fiscal Year 2006

RCC Benefits

- Permanent availability, often year-round
- Increase surface and groundwater protection
- Increase in worker safety for both Sanitation and Water Treatment Plants
- Decrease in hazardous exposures to humans and pets
- Decrease in damage to sewer and septic systems from improper disposal
- Lower disposal cost per pound
- Ongoing education for Iowa residents
- Available to CESQG businesses, schools etc.
- One facility can serve several counties

The following data are derived from 17 Regional Collection Centers currently in operation:

Total program cost for FY 2006	\$156,534
Contracted household hazardous waste disposed	577,043 lbs.
Household Hazardous Materials Managed Locally	
Latex paint	645,603 lbs.
Used motor oil	613,847 lbs.
Used lead-acid batteries	171,757 lbs.
Other waste (sharps, scrap metals, electronics, ect.)	801,747 lbs.
Materials reused locally through Swap Shop	293,660 lbs.
TOTAL MANAGED LOCALLY	2,050,582 lbs.
TOTAL AMOUNT OF WASTE MANAGED	2,921,284 lbs.

County Coverage

RCCs 20 counties

Satellites 35 counties

Mobile Collections 21 counties

Cities w/ Clean up Days only 5 counties

Total counties with RCC service 81

Total Household Participation	28,191
Total Small Quantity Generator Participation	912
Total Participation	29,103

Key Points Summary	
Average weight of waste collected per household	81 lbs
Average weight of waste collected per business	225 lbs
Total IDNR reimbursement per pound of <i>hazardous waste collected for contracted disposed</i>	\$0.27

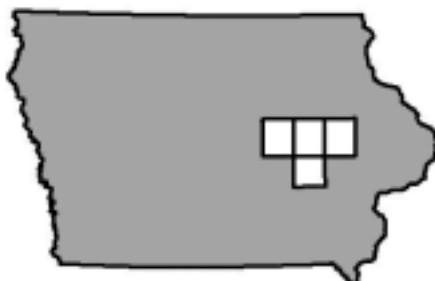


Cedar Rapids/Linn County SWA Regional Collection Center

Main Facility: *Linn County*

Satellite Facilities:

*Benton, Iowa and Tama
Counties*



Population:

99,680 households

Contact info:

*Cedar Rapids/Linn
Co. SWA*

P.O. Box 2068

Cedar Rapids, IA

52732

Bill Sloop

(319) 373-4771

Participation Overview	Number of participants	Percent participation
Households participating	2693	2.7
Conditionally exempt small quantity generators	149	not available

Type of Waste Collected	Subtotal Lbs	Totals Lbs
Lead acid batteries managed locally	1,684	
Latex paint managed locally	62,520	
Used oil managed locally	0	
Other managed locally (sharps,electronics)	246,650	
Total managed locally		310,855
Household hazardous waste (HHW)		114,379
TOTAL POUNDS MANAGED		473,834
Amount distributed in a Swap Shop	48,600	

Key Points Summary	
Total pounds collected per household	166
Total pounds collected per CESQG	173

Disposal Costs

\$42,745

Operation and Disposal

Support from DNR

\$31,773



Clinton County Area Regional Collection Center

Main Facility: *Clinton County*
Mobile Collection Service:
*Clinton, Cedar, Jackson and
 Jones Counties. Satellite
 Facilities:* *Cedar, Jackson and
 Jones Counties*



Population:
 42,890 households

Contact info:
 Clinton County Area
 Solid Waste Agency
 4292 220th St.
 Clinton, IA 52732

Laura Liegois
 (563) 243-4749

Participation Overview	Number of participants	Percent participation
Households participating	1,450	3.4
Conditionally exempt small quantity generators	38	not available

Type of Waste Collected	Subtotal Lbs	Totals Lbs
Lead acid batteries managed locally	36,535	
Latex paint managed locally	28,740	
Used oil managed locally	136,720	
Other managed locally (sharps,electronics)	8845	
Total managed locally		210,841
Household hazardous waste (HHW)		32,638
TOTAL POUNDS MANAGED		246,543
Amount distributed in a Swap Shop	8845	

Disposal Costs
 \$30,692

Operation and Disposal
 Support from DNR
 \$7,773

Key Points Summary	
Total pounds collected per household	166
Total pounds collected per CESQG	146



Council Bluffs Regional Collection Center

Population:
45,876 households

Contact info:
Council Bluffs
Regional Collection
Center
4441 Gifford Road
Council Bluffs, IA
51501

Tony Fiala
(712) 328-4985

Main Facility: Council Bluffs
Mobile Collection Service:
Pottawattamie and Page
Counties



Participation Overview	Number of participants	Percent participation
Households participating	1,395	3.04
Conditionally exempt small quantity generators	14	not available

Disposal Costs
\$22,376.14

Operation &
Disposal Support
From DNR
\$10,460.00

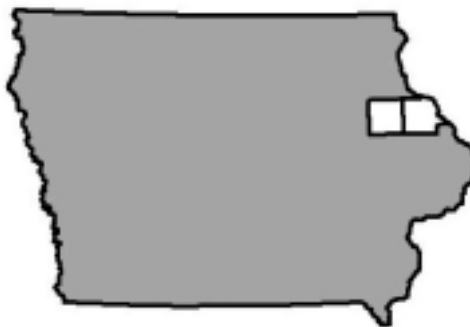
Type of Waste Collected	Subtotal Lbs	Totals Lbs
Lead acid batteries managed locally	32,880	
Latex paint managed locally	7715	
Used oil managed locally	84,150	
Other managed locally (sharps,electronics)	0	
Total managed locally		124,745
Household hazardous waste (HHW)		35,073
TOTAL POUNDS MANAGED		200,435
Amount distributed in a Swap Shop	40,617	

Key Points Summary	
Total pounds collected per household	142
Total pounds collected per CESQG	194



Dubuque Regional Collection Center

Main Facility: *Dubuque County*
Mobile Collection Service:
Dubuque and Delaware counties



Population:
 40,524 households

Contact info:
*Dubuque Regional
 Collection Center
 925 Kerper Blvd.
 Dubuque, IA 52001*

*Nancy Otterbeck
 (563) 589-1720*

Participation Overview	Number of participants	Percent participation
Households participating	680	1.68
Conditionally exempt small quantity generators	59	not available

Type of Waste Collected	Subtotal Lbs	Totals Lbs
Lead acid batteries managed locally	2,910	
Latex paint managed locally	3438	
Used oil managed locally	0	
Other managed locally (sharps,electronics)	5,692	
Total managed locally		12,040
Household hazardous waste (HHW)		24,287
TOTAL POUNDS MANAGED		64,137
Amount distributed in a Swap Shop	27,810	

Disposal Costs
 \$23,637

Operation and Disposal
 Support from DNR
 \$6,708

Key Points Summary	
Total pounds collected per household	107
Total pounds collected per CESQG	119



HazChem Center of Southeast Iowa

Population:
44,757 households

Contact info:
HazChem Center of
Southeast Iowa
1818 W. Burlington
Ave.
Burlington, IA 52601

Elyn Holton-Dean:
(312) 753-8758

Main Facility: *Des Moines County*
Mobile Collection Service: *Des Moines, Henry, Lee Counties and Van Buren*
Satellite Facility: *Lee County*



Participation Overview	Number of participants	Percent participation
Households participating	464	1.1
Conditionally exempt businesses	56	not available

Disposal Costs
\$15,167

Operation and Disposal
Support from DNR
\$6,597

Type of Waste Collected	Subtotal Lbs	Totals Lbs
Lead acid batteries managed locally	0	
Latex paint managed locally	254	
Used oil managed locally	5,201	
Other managed locally (sharps,electronics)	1858	
Total managed locally		7,313
Household hazardous waste (HHW)		25,279
TOTAL POUNDS MANAGED		34,250
Amount distributed in a Swap Shop	1,658	

Key Points Summary	
Total pounds collected per household	30
Total pounds collected per CESQG	365



Iowa City Regional Collection Center

Main Facility: *Johnson County*
Mobile Collection Service:
Selected cities in Washington County



Population:
 44,080 households

Contact info:
Iowa City RCC
3900 Hebl Ave. SW
Iowa City, IA 52240

Dave Elias
(319) 356-5170

Participation Overview	Number of participants	Percent participation
Households participating	7582	17.20
Conditionally exempt small quantity generators	46	not available

Type of Waste Collected	Subtotal Lbs	Totals Lbs
Lead acid batteries managed locally	14,390	
Latex paint managed locally	34,018	
Used oil managed locally	67,560	
Other managed locally (sharps,electronics)	144,399	
Total managed locally*		260,367
Household hazardous waste (HHW)		31,774
TOTAL POUNDS MANAGED**		336,834
Amount distributed in a Swap Shop	44,693	

Disposal Costs
 \$48,533

Operation and Disposal
 Support from DNR
 \$8,944

Key Points Summary	
Total pounds collected per household	44.16
Total pounds collected per CESQG	194



Landfill of North Iowa Regional Collection Center

Population:
59,840 households

Contact info:
Landfill of North
Iowa
15942 Killdeer Ave.
Clear Lake, IA
50428

Bill Rowland
(641) 357-5452

Main Facility: Cerro Gordo County
Satellite Facilities: Kossuth County
Mobile Collection Service: Cerro
Gordo, Franklin, Kossuth, Counties
and select cities in Worth, Hancock,
and Winnebago Counties.



Participation Overview	Number of participants	Percent participation
Households participating	1,610	2.9
Conditionally exempt small quantity generators	57	not available

Disposal Costs
\$17,112

Operation and Disposal
Support from DNR
\$6,848

Type of Waste Collected	Subtotal Lbs	Totals Lbs
Lead acid batteries managed locally	24,040	
Latex paint managed locally	47,660	
Used oil managed locally	18,000	
Other managed locally (sharps, electronics)	670	
Total managed locally		90,370
Household hazardous waste (HHW)		26,689
TOTAL POUNDS MANAGED		121,590
Amount distributed in a Swap Shop	4531	

Key Points Summary	
Total pounds collected per household	66
Total pounds collected per CESQG	261

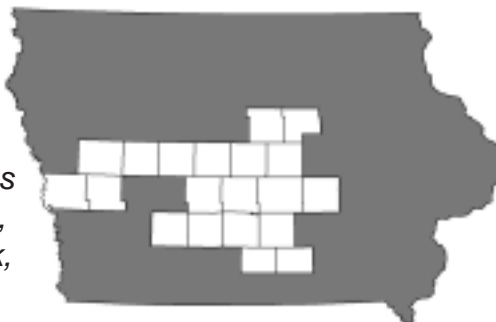


Metro Waste Authority Regional Collection Center

Main Facility: Polk County

Satellite Facilities: Adair, Boone, Carroll, Crawford, Grundy, Hardin, Harrison, Jasper, Madison, Marion, Marshall, Shelby and Story Counties

Mobile Collection Service: Dallas, Greene, Lucas, Monroe, Poweshiek, and Warren Counties



Population:

337,597 households

Contact info:

MWA Regional Collection Center
225 Prairie Dr.
Bondurant, IA 50035

Judi Mendenhall
(515) 967-5512

Participation Overview	Number of participants	Percent participation
Households participating	7,407	2.19
Conditionally exempt small quantity generators	252	not available

Type of Waste Collected	Subtotal Lbs	Totals Lbs
Lead acid batteries managed locally	25,923	
Latex paint managed locally	80,480	
Used oil managed locally	86,184	
Other managed locally (sharps,electronics)	383,969	
Total managed locally		576,556
Household hazardous waste (HHW)		147,088
TOTAL POUNDS MANAGED		789,871
Amount distributed in a Swap Shop	66,227	

Disposal Costs
\$218,982

Operation and Disposal
Support from DNR
\$39,618

Key Points Summary	
Total pounds collected per household	64
Total pounds collected per CESQG	1240



PCB

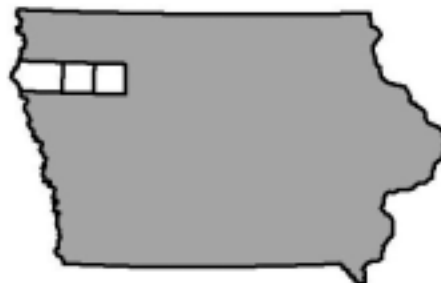
Regional Collection Center

Population:
22,249 households

Contact info:
PCB Regional
Collection Center
1805 Linden St.
Cherokee, IA 51012

Dennis Henrich
(712) 225-3749

Main Facility: *Cherokee County*
Mobile Collection Service:
Plymouth, Cherokee and Buena Vista counties



Participation Overview	Number of participants	Percent participation
Households participating	1,286	5.78
Conditionally exempt small quantity generators	9	not available

Disposal Costs
\$33,395

Operation and Disposal
Support from DNR
\$7,598

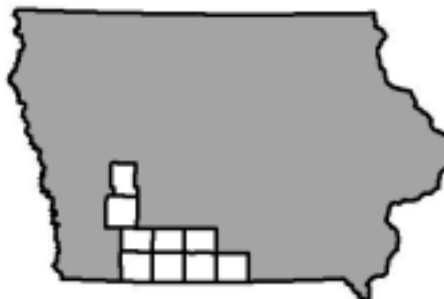
Type of Waste Collected	Subtotal Lbs	Totals Lbs
Lead acid batteries managed locally	360	
Latex paint managed locally	7420	
Used oil managed locally	680	
Other managed locally (sharps,electronics)	7,669	
Total managed locally		16,130
Household hazardous waste (HHW)		27,993
TOTAL POUNDS MANAGED		44,443
Amount distributed in a Swap Shop	320	

Key Points Summary	
Total pounds collected per household	33
Total pounds collected per CESQG	196



Prairie SWA Regional Collection Center

Main Facility: Union County
Satellite Facilities: Audubon,
 Cass, Clarke, and WRD Counties
 (Wayne, Ringgold, Decatur)
Mobile Collection Service:
 Adams and Taylor counties



Population:
 5,242 households

Contact info:
 Prairie RCC
 1774 Lark Ave.
 P.O. Box 227
 Creston, IA 50801

*Leslie Bullock-
 Goldsmith*
 (641) 347-5022

Participation Overview	Number of participants	Percent participation
Households participating	392	1.26
Conditionally exempt small quantity generators	13	not available

Type of Waste Collected	Subtotal Lbs	Totals Lbs
Lead acid batteries managed locally	3,616	
Latex paint managed locally	2,978	
Used oil managed locally	1,921	
Other managed locally (sharps,electronics)	1034	
Total managed locally		9,549
Household hazardous waste (HHW)		13,199
TOTAL POUNDS MANAGED		35,652
Amount distributed in a Swap Shop	12,904	

Disposal Costs \$9,813

Operation and Disposal
 Support from DNR
 \$3,160

Key Points Summary	
Total pounds collected per household	88
Total pounds collected per CESQG	126



SEMCO

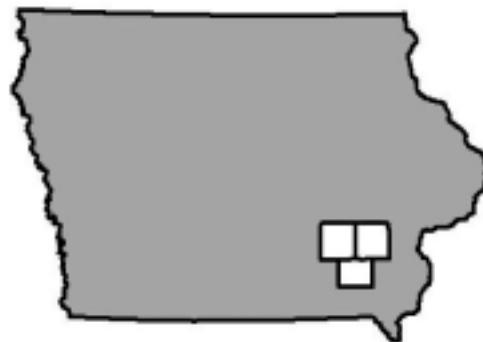
Regional Collection Center

Population:
19,291 households

Contact info:
SEMCO Regional
Collection Center
29997 Hwy. 78
Richland, IA 52585

Ray Griffin
(319) 456-6171

Main Facility: Jefferson County
Satellites : Jefferson, Keokuk
and Washington counties



Participation Overview	Number of participants	Percent participation
Households participating	70	0.5
Conditionally exempt small quantity generators	4	not available

Disposal Costs \$3,023

Operation and Disposal
Support from DNR
\$1,026

Type of Waste Collected	Subtotal Lbs	Totals Lbs
Lead acid batteries managed locally	0	
Latex paint managed locally	0	
Used oil managed locally	0	
Other managed locally (sharps,electronics)	0	
Total managed locally		0
Household hazardous waste (HHW)		4,702
TOTAL POUNDS MANAGED		4,753
Amount distributed in a Swap Shop	51	

Key Points Summary	
Total pounds collected per household	67
Total pounds collected per CESQG	3



Sioux City Regional Collection Center

Population:

39,151 households

Contact info:Sioux City Regional
Collection Center

405 6th St.

Sioux City , IA

51101

(712) 279-6222

Main Facility: *Sioux City*

Participation Overview	Number of participants	Percent participation
Households participating	642	1.64
Conditionally exempt small quantity generators		not available

Disposal Costs \$8,583

Operation and Disposal
Support from DNR
\$2,743

Type of Waste Collected	Subtotal Lbs	Totals Lbs
Lead acid batteries managed locally	2567	
Latex paint managed locally	2288	
Used oil managed locally	5222	
Other managed locally (sharps,electronics)	525	
Total managed locally		10,602
Household hazardous waste (HHW)		8,790
TOTAL POUNDS MANAGED		28,639
Amount distributed in a Swap Shop	9,247	

Key Points Summary	
Total pounds collected per household	44
Total pounds collected per CESQG	118



Waste Commission of Scott County Regional Collection Center

Main Facility: *Scott County*
Satellite Facility:
Muscatine County



Population:
 78,181 households

Contact info:
 Waste Commission
 of Scott County
 P.O. Box 563
 Buffalo, IA 52728

Kathy Morris
 (563) 381-1300

Participation Overview	Number of participants	Percent participation
Households participating	2,151	2.75
Conditionally exempt small quantity generators	161	not available

Type of Waste Collected	Subtotal Lbs	Totals Lbs
Lead acid batteries managed locally	26,852	
Latex paint managed locally	187,284	
Used oil managed locally	194,920	
Other managed locally (sharps,electronics)	12,159	
Total managed locally		421,215
Household hazardous waste (HHW)		85,151
TOTAL POUNDS MANAGED		540,304
Amount distributed in a Swap Shop	33,938	

Disposal Costs
 \$31,620

Operation and Disposal
 Support from DNR
 \$23,139

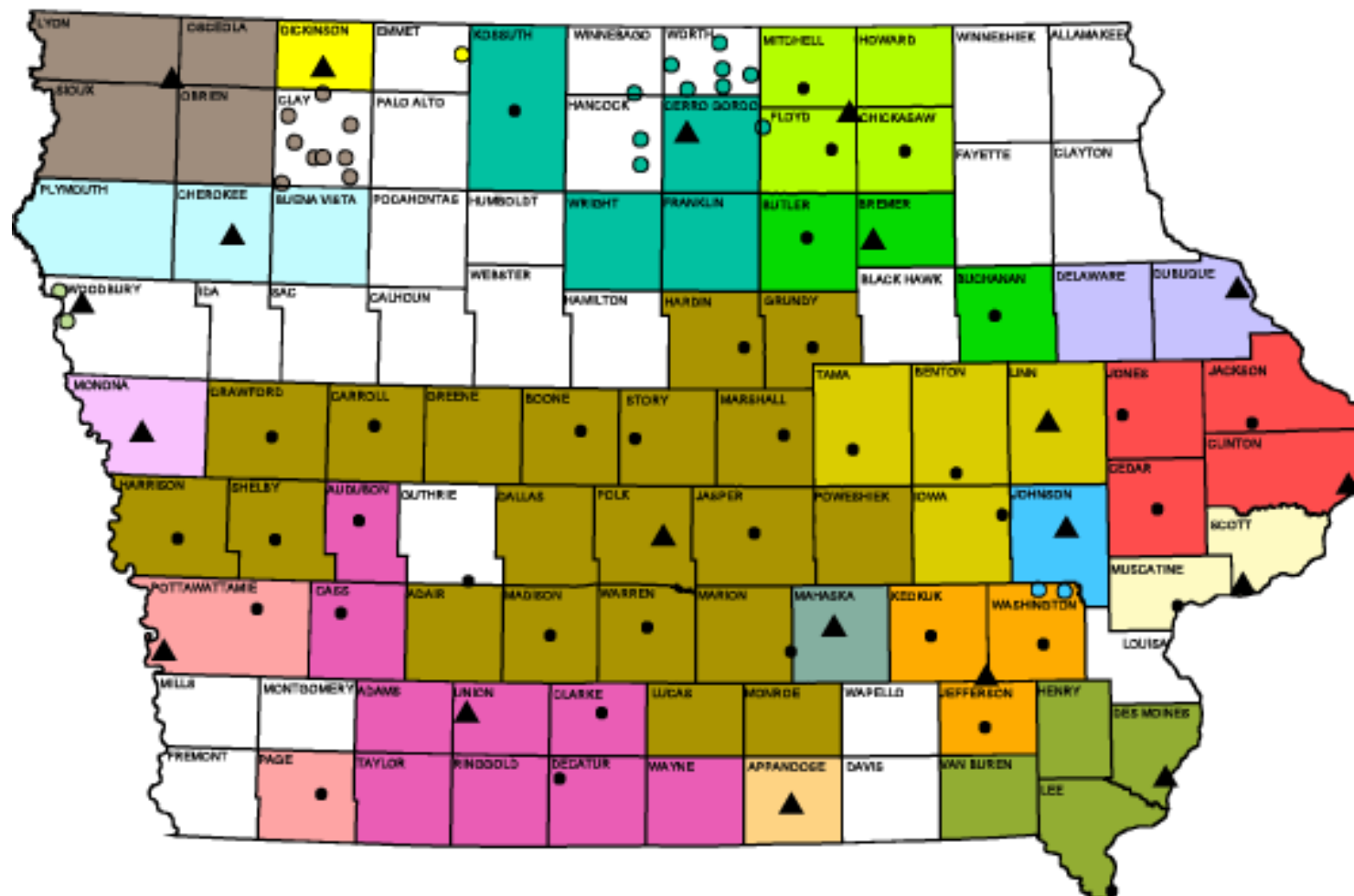
Key Points Summary	
Total pounds collected per household	235.78
Total pounds collected per CESQG	205.88

Section 2:

Regional Collection Center
Contact Information

HHM Regional Collection Centers

Regional Collection Centers (RCC) are permanent collection facilities designed to assist the public and small businesses with proper management of hazardous materials.



▲ Regional Collection Center Facilities

● RCC Satellites

RCC Service Areas

- | | |
|---|---|
| <ul style="list-style-type: none"> Dickinson Co. Serviced City Iowa City Serviced City Landfill of North Iowa Serviced City NIASWA Serviced City Clinton Co. SWA Haz Chem Prairie Solid Waste Agency | <ul style="list-style-type: none"> FMC Dubuque Co. CR/Linn Co. SWA Waste Commission of Scott County PCB SWA Metro Waste Authority Monona Co. Mahaska Co. SEMCO Bremer Co. Rathbun Area Solid Waste Commission Council Bluffs Unserviced Counties |
|---|---|
- ▲ Sioux City HHM Collection Center Service Area



Iowa Regional Collection Center Contact Information

Main facilities are in bold with satellite facilities listed beneath

RCC Name	Phone	Counties Served	Website
Bremer Co. RCC Buchanan Co. Satellite Butler Co. Satellite	319-352-4574 319-440-1080 319-267-2070	Bremer, Buchanan, Butler Buchanan Butler	www.co.bremer.ia.us/ departments/landfill/index.html
Cedar Rapids/Linn Co. SWA Benton Co. Satellite Iowa Co. Satellite Tama Co. Satellite	319-373-4771 319-828-4401 319-472-2211 641-484-3341	Linn, Benton, Iowa, Tama Benton Iowa Tama	
Clinton Co. Area SWA Cedar Co. Satellite Jackson Co. Satellite Jones Co. Satellite	563-243-4749	Clinton, Cedar, Jones, Jackson Cedar Jackson Jones	www.ccswa.org www.jcsda.org
Council Bluffs RCC Page Co. Satellite	712-328-4985 712-542-4215	Pottawattamie, Page Page	
Dickinson Co. RCC	712-338-4786	Dickinson & City of Armstrong in Emmet Co.	
Dubuque Co. RCC	563-589-1720	Dubuque, Delaware	www.dmaswa.org
Floyd, Mitchell, Chickasaw, County RCC	877-982-4288	Floyd, Mitchell, Chickasaw, Howard	
HazChem Center/SE IA Lee Co. Satellite	319-753-8758	Des Moines, Henry, Lee, Van Buren	www.wastewrap.org/Household HazardousWaste.html
Iowa City RCC	319-356-5170	Johnson	http://www.icgov.org/ hazardous.htm
Landfill of North Iowa Kossuth Co. Satellite Cities of Klemme and Garner (Hancock Co.), Forest City (Winnebago Co.), Joice, Hanlontown, Northwood, Kennset, Manly and Grafton (Worth Co.), and Nora Springs (Floyd Co.)	641-357-5452 515-924-3739	Cerro Gordo, Franklin, Kossuth	www.landfillnorthiowa.org
Mahaska Co RCC	641-673-9266	Mahaska	



Iowa Regional Collection Center Contact Information (continued)

Main facilities are in bold with satellite facilities listed beneath

RCC Name	Phone	Counties Served	Website
Monona Co RCC	712-353-6300	Monona	
Metro Waste Authority	888-603-2739 515-967-5512	For service in Polk, Harrison, Dallas, Greene, Lucas, Poweshiek, & Warren counties contact Metro Waste Authority	
Adair Co. Satellite		Adair	www.acslrc.org
Boone Co. Satellite	641-743-8343	Boone	
Carroll Co. Satellite	515-433-0591	Carroll	www.sciswa.org (Poweshiek Lucas, Marion, & Monroe Counties.)
Crawford Co. Satellite	877-982-4288	Crawford	
Grundy Co. Satellite	641-982-4288	Grundy	
Hardin Co. Satellite	319-824-6967	Hardin	
Jasper Co. Satellite	641-939-5808	Jasper	
Madison Co. Satellite	641-792-3866	Madison	
Marion Co. Satellite	515-462-3083	Marion	
Marshall Co. Satellite	641-828-8545	Marshall	
Shelby Co. Satellite	877-982-4288	Shelby	
Story Co Resource Recovery Plant	515-239-5137	Story	
Indianola Satellite	515-961-9410	Warren	
Northwest Iowa Solid Waste Agency <i>Open Fall 2007</i>	712-234-4026	Lyon, Sioux, Osceola, O'Brien, and incorporated Clay Co, excluding Spencer	
PCB	712-225-3749	Buena Vista, Cherokee, Plymouth	
Prairie RCC	641-347-5022	Adams, Taylor, Union	www.praireswa.org
Union Co.	641-347-5022		
Audubon Co.	712-563-3589		
Clarke Co.	641-342-2662		
Cass Co.	712-243-1991		
Wayne-Ringgold-Decatur	641-773-5229		
SEMCO	319-456-6171	Jefferson, Keokuk, Washington	
Rathbun Area RCC <i>Open in Fall 2007</i>	641-437-7279	Appanoose Co.	
Sioux City RCC	712-279-6222	Cities of Sioux City and Sargents Bluff	
Waste Comm. Scott Co.	563-381-1300	Scott, Muscatine	
Muscatine Co. Satellite	563-263-9689	Muscatine	



Household Hazardous Materials Reference List (not inclusive)

The BOLD FACED HEADINGS are categories listed in the Groundwater Protection Act. The materials listed under the headings are there to assist you in identifying the types of products included under the HHM program.

MOTOR OILS & MOTOR OIL ADDITIVES

- All motor oil products
- Engine lubricants
- Oil and transmission fluid additives
- Transmission fluids
- Oil

MOTOR OIL FILTERS

- All types, canister or replaceable filter elements

GASOLINE & DIESEL ADDITIVES

- All types of gas treatments & gas line freeze-up products

DEGREASERS

- All engine cleaners, most of these are also solvents, many come in aerosol cans

WAXES & POLISHES (except nail polish)

- Shoe polishes
- Car waxes
- Spray dust cleaners
- Floor waxes
- Furniture polishes
- Furniture stains

SOLVENTS (except water)

- Mineral spirits
- Alcohols
- Naphtha
- Turpentine
- Cresol

PAINTS (except latex-based materials)

- All other paints-brush or spray including aerosol paints
- Lacquers & thinners (except water)

CATHODE RAY TUBES, CRT's (effective June 1, 2006)

found in Computer monitors and television sets, (not LCD or Plasma screens)

CAUSTIC HOUSEHOLD CLEANERS

- Drain cleaners
- Most oven cleaners
- Brass cleaners
- Toilet bowl cleaners
- Rust removers
- Silver & Chrome

**SPOT & STAIN REMOVERS (petroleum base)****PETROLEUM BASED FERTILIZERS****PESTICIDES**

Any insecticide product including, but not limited to:

- Yard & garden sprays
- Flea & tick products for pets
- Moth balls
- Rodenticides
- Bug sprays or stick creams
- Roach powder
- Fly strips
- Algaecides
- Fungicides
- Herbicides

MISCELLANEOUS

- Lead-acid batteries
- Pool chemicals
- Photography chemicals
- Eye glass cleaner
- Windshield wiper solution
- Self-lighting charcoal
- Gun cleaner solution
- All aerosols (except personal care products)
- Rechargeable batteries
- Antifreeze
- Wood preservatives
- Butane lighters
- Most glues & adhesives
- Charcoal lighter fluid
- Jewelry cleaner

Questions?

Contact the Department of Natural Resources at 515-281-4367, or visit our website at www.iowadnr.com.



**SAFE, SMART,
SOLUTIONS FOR IOWA**